

CLAIMS

We claim:

1. A method for preventing or treating Sinusoidal Obstruction Syndrome ("SOS") comprising administering a matrix metalloproteinase ("MMP") inhibitor.
2. A method for preventing or treating chemotherapy- or radiation-induced liver disease comprising administering a matrix metalloproteinase ("MMP") inhibitor.
3. The method of claim 2, wherein said chemotherapy-induced liver disease includes SOS, nodular regenerative hyperplasia, peliosis hepatis, immunosuppression-induced hepatic venoocclusive disease, and sinusoidal dilatation.
4. The method of claims 1 or 2, wherein said MMP inhibitor is doxycycline or 2-[(4-biphenylsulfonyl)amino]-3-phenyl-propionic acid.
5. The method of claim 4, wherein said MMP inhibitor is doxycycline.
6. The method of claim 5 wherein 15 mg/kg of said doxycycline is administered twice daily.
7. The method of claim 4, wherein said MMP inhibitor is 2-[(4-biphenylsulfonyl)amino]-3-phenyl-propionic acid.
8. The method of claim 7 wherein 100-200 mg/hour of said 2-[(4-biphenylsulfonyl)amino]-3-phenyl-propionic acid is administered.
9. The method of claims 1 or 2 wherein said MMP inhibitor is administered for up to 4 weeks.
10. The method of claims 1 or 2, wherein said MMP inhibitor is Marimastat, Prinomastat, RS-130,830, CGS 27023A, Solimastat, BAY 12-9566, Ro 32-3555, BMS-272591, Ilomastat, D2163, Metastat, Neovastat, or Periostat.
11. A method for preventing or treating chemotherapy or radiation induced liver disease comprising administering an effective dose of a matrix metalloproteinase ("MMP") inhibitor selected from doxycycline or 2-[(4-biphenylsulfonyl)amino]-3-phenyl-propionic acid.
12. The method of claim 11, wherein said MMP inhibitor is doxycycline.
13. The method of claim 12, wherein 15 mg/kg of said doxycycline is administered twice daily.

- 1 14. The method of claim 11, wherein said MMP inhibitor is 2-[(4-
2 biphenylsulfonyl)amino]-3-phenyl-propionic acid.
- 1 15. The method of claim 14, wherein 100-200 mg/hour of said 2-[(4-
2 biphenylsulfonyl)amino]-3-phenyl-propionic acid is administered.
- 1 16. A method for preventing or treating chemotherapy or radiation induced liver
2 disease comprising administering 15 mg/kg of doxycycline twice daily.
- 1 17. A method for preventing or treating chemotherapy or radiation induced liver
2 disease comprising administering 100-200 mg/hour of 2-[(4-
3 biphenylsulfonyl)amino]-3-phenyl-propionic acid.